



THE UNIVERSITY OF KANSAS SPACE TECHNOLOGY LABORATORIES

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BIMONTHLY ERTS-A USER INVESTIGATION PROGRESS REPORT

September 30, 1972

Title of Investigation: Use of Feature Extraction Techniques for the Texture
and Context Information in ERTS Imagery

ERTS-A Proposal No. 60-1

Principal Investigator: R. M. Haralick

GSFC PI ID No. UN 094

Report Prepared by: K. Shanmugam (Research Associate)

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Report Approved by: R. M. Haralick (Principal Investigator)

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The main objective of this investigation is to extract the textural features of selected frames of ERTS imagery and use these areal features along with the resolution cell spectral and temporal characteristics as the basis for the discrimination between different types of categories of interest to ERTS investigators at Kansas.

During this report period, the programming and debugging of the computer program to convert the digital tapes supplied by NASA to our standard computer format for the HIS-635 has been completed. Also the initial computer program to extract the textural features has been developed. At the present time in the contract period there have been no significant problems that have impeded the progress of the investigation.

Of course part of the imagery obtained during the ERTS-A first period's coverage of Kansas was unusable for analysis because of cloud cover. However, we have located images from subsequent coverage which seem to be suitable for texture analysis. A request for the digital tapes has been initiated and pending the arrival of these tapes we have no results to report at this time. Once the digital tapes are received we see no reason to expect difficulties with conformance to contract work. During this report period, there has been no significant change in the contract operating personnel.

